VIDEO TOASTER FLYER

When it comes to all-in-one professional video editing, it's the hands-down winner.

NewTek
INCORPORATED

Video Toaster... everything you need for professional video is right within reach.

You've got your finger on the pulse of the video world. You know how powerful the medium is. Now, here's the desktop video production system that's up to the creative challenge. Video Toaster™. It puts all the hardware and software tools you need to create broadcast quality video into one convenient, high-quality system.

We packed it with the most comprehensive list of video production tools around to meet any application. That means "must-have" features like video switching, character generation and effects, not to mention 2D and 3D graphics tools. But we've got the extras, too. Like the ability to insert video clips into LightWave 3D animations. And exceptional audio capabilities. We even included the ability to overlay animated video transitions across the screen in real-time. There isn't another system in this price range that can pull that off.

Speaking of price, unlike some systems, this one won't cost you an arm and a leg, yet you can compare it to systems that cost $50,000 or more. And it just gets better. Because with each software upgrade, Video Toaster's unique hardware design is reconfigured to put incredible new capabilities right at your fingertips.

Video Toaster has it all... including an Emmy.

We succeeded so well, that Video Toaster won an Emmy Award for technical achievement. No wonder it's a regular on prime-time television.

The Flyer... the powerhouse that revolutionized video editing.

Okay. Maybe you can't just snap your fingers and professionally edit your video and audio material. But the tapeless, nonlinear editing Flyer is as close as it comes.

There's no bulky, multi-machine systems. No plodding off-line studio. No botched up editing. Nothing but you, the Flyer and the fastest means of getting from rough to finish without losing a bit of quality. Now, that's power.

We give a mouse a lot of muscle.

Using the Video Toaster Flyer's simple drag and drop interface for editing, there's almost nothing you can't do. A couple of clicks, and you can record your video and audio segments direct-to-disk as clips, arrange them for editing and make your decisions with drag and drop control. Add effects, graphics and text then view it in real time. Make changes by dragging in new scenes or backdrops -- then see those changes instantly because there's no effects rendering to slow you down.

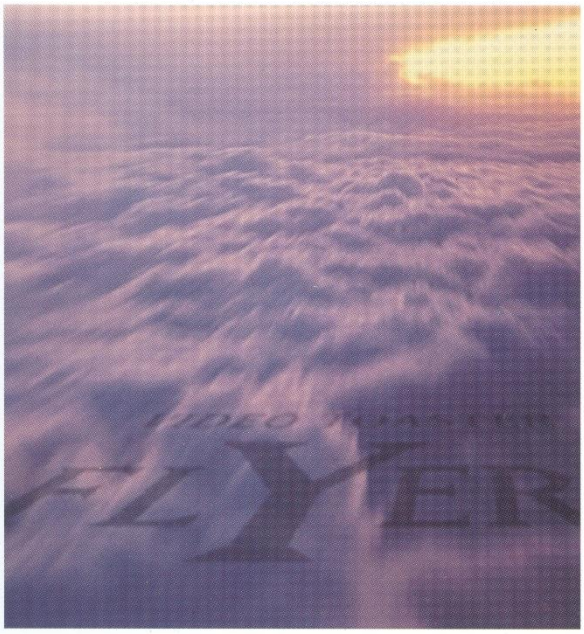
Stop. Look. Listen.

Another neat Flyer feature is NewTek's proprietary VTSAC technology, a unique digital video compression method that delivers on-line quality video. As for quality audio for music, sound effects and voice-overs, try this on for sound -- the Flyer has a powerful DSP chip that provides up to eight tracks of 16-bit CD quality audio. So you can see that when we put it all together, we were listening to everything a pro like you wants.

A fistful of Video Toaster Flyer features.

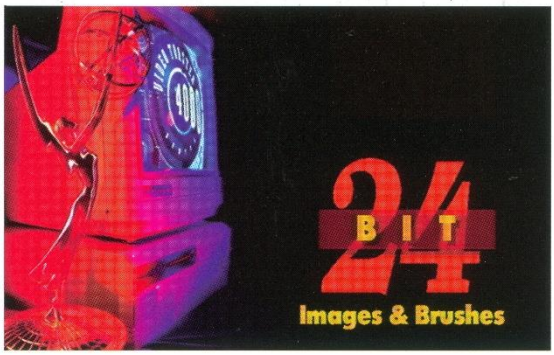
Make the switch to Video Toaster's switcher.

With 4-input video and the ability to easily move between them, we've got a great switcher on our hands. But that's just for openers. You can choose from over 300 hot, popular and cutting-edge video effects (many exclusive to Video Toaster) for a unique look every time. Add in traditional Grass Valley switcher emulation, and this one plays all the angles.



Size up our characters.

Titles are a snap with Video ToasterCG™. Just point. Click. Drag. Drop. Rated at 35ns, it delivers



professional titles and more on-screen fast. It'll look great, too, because our character generator gives you 100 Postscript™ fonts to choose from. It also works with all Type 1 and Truetype Postscript fonts. Plus you get literally thousands of extra symbols, graphics and fonts including foreign languages. Add in scrolls, crawls, keys, frames, graphics, gradient blends, variable transparency and font scaling from 10 to 400 lines high and you can achieve virtually any look you can dream up.

Video effects that pack a punch.

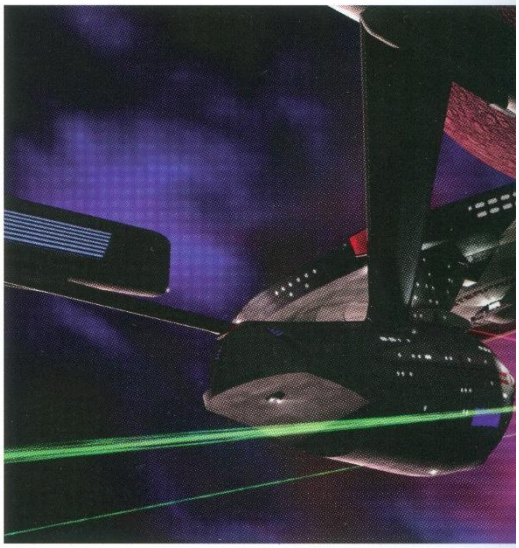
Why not have fun while you're at it? We've got flips. Tumbles. Spins. Pulls. All the effects you'd expect to be found only on expensive systems are right here. We've even added some of our own tricks that you can't find anywhere else...at any price. To finish your work in style, you also get smooth fades, transparent cast shadows, standard wipes, synchronized sound effects, one hundred color process effects and positionable windows -- all right at your fingertips.

An imposing overlay feature.

Our luminance keyer is just another way the Video Toaster stacks up. Want to impose characters or animals on a background? Done. Send text flying over your video? No problem. Just choose the input source, overlay the graphics or video and the Toaster will seamlessly dissolve them on and off the screen. It's as simple as it sounds.

LightWave 3D takes videos to the next dimension.

This is the incredibly powerful, professional animation system used by more Hollywood facilities than any other...and it comes standard with the Video Toaster. That's an unbelievable value! LightWave 3D is jam-packed with formidable capabilities. An intuitive, complete, easy-to-use animation and modeling system delivers the ultimate in creative control, not to mention



flexibility the likes of which you've never seen. There are unparalleled features for shaping, surfacing, lighting and animating.

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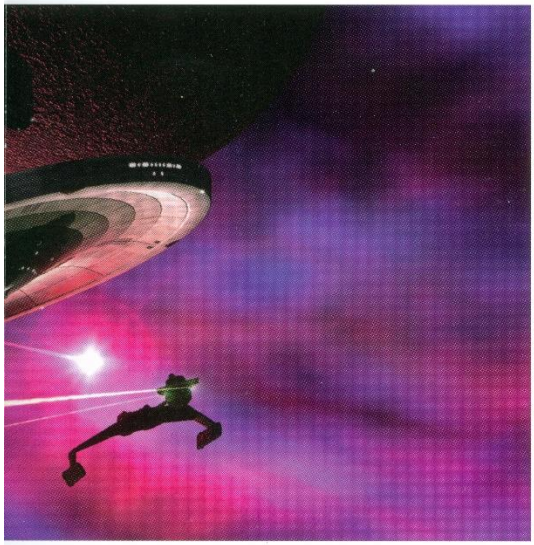
The modeling feature lets you create and modify objects by quickly transforming low resolution objects to high res art with incredible detail and flexibility. Things like beveled letter edges, spline curves and extruded 3D logos are a snap. Or, for the ultimate ease, you can choose from hundreds of ready-made objects. It doesn't get any easier than this.

You can also network a series of Toasters or add workstations to increase rendering speeds even more. And everything is controlled by a simple interface that makes using LightWave 3D a breeze.

Brush up your image with ToasterPaint™.

Do you want to make a sequence sizzle? Paint it with our 24-bit ToasterPaint package. It's like having your own art studio filled with tools for airbrushing, stenciling, texture mapping, warping, rotoscoping and creating variable transparencies. You can completely change the



look of any still that's been grabbed or create broadcast quality graphics that can then be moved into CG so you can add titles, text and more.

Total recall: don't forget our frame grabber.

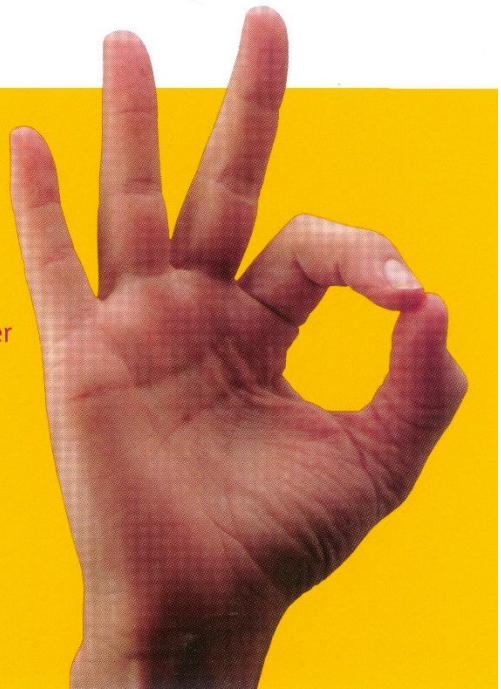
When you have an image you want to use again, here's the easiest way to retain it. Just freeze the frame. Grab it in real time from any video source or any Flyer clip. And store it by saving it to your hard drive. Then retrieve and display it at a moment's notice. It's a cinch to use your saved frames in ToasterPaint, ToasterCG or LightWave 3D with great results.

Get your hands on any image... any time with Still Store.

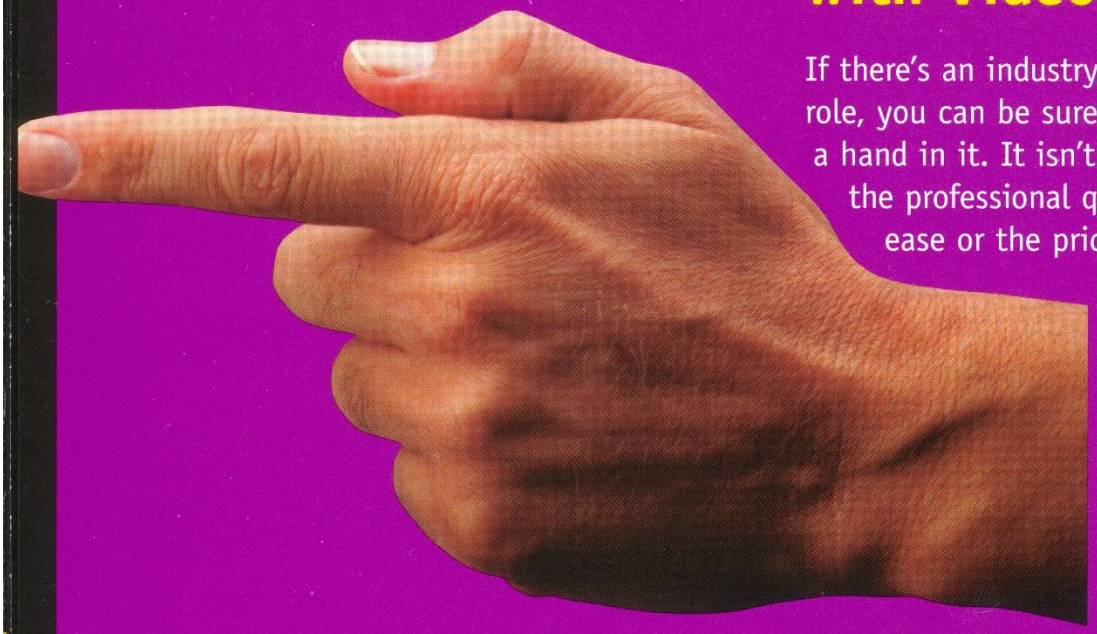
Whether you have a handful of images or thousands of them, Still Store lets you keep them handy and on-line, ready to recall just about instantly. You can even "see double" with the Toaster's dual frame buffer display -- a nifty feature that allows you to transfer special effects from one image to another.

All these great features (and these are just the highlights) are yours with Video Toaster Flyer. But you'll never know how great it is until you try it for yourself and see why, once you get your hands on the Video Toaster Flyer, you'll never let go.

For more information, call: **1-800-TOASTER**. Outside the U.S., call: 913-228-8000. Or check out or web site at: **www.newtek.com**



Videography pros of every description get off to a flying start with Video Toaster Flyer.



If there's an industry where video plays a role, you can be sure Video Toaster Flyer has a hand in it. It isn't just the features or the professional quality; it isn't just the ease or the price...it's the unbeatable combination that makes Video Toaster Flyer the popular professional tool it is.

In the broadcast arena, Toaster Flyer is used to produce everything from prime-time programming to local news broadcasts. In the corporate world, it's creating training and promotional videos, video press releases, commercials and more. In education, it's attention-grabbing instructional videos. In government, there are promotional and training films and simulations. And event videographers are delivering sophistication with ease for weddings, corporate parties, anniversaries or any other special event . But if you want to get the whole picture, call: **1-800-TOASTER** or, outside the U.S., call: 913-228-8000. You can also take a look at our web site at: **www.newtek.com**

" The Video Toaster Flyer has elevated my business' productivity and profitability. The output quality is phenomenal "

Stan Shumlick
Partner, Two Tall Video Productions
Flyer_sig Director, L.A. Video Toaster Group

Video Toaster 4.1a

(features requiring Flyer indicated in italic)

Switcher

- Sequence Framestores, ToasterFX, live sources, CG pages, AREXX scripts, etc.
- Easy to use, drag and drop storyboard interface
- Graphic representation of all croutons (64 colors AGA, 16 gray non-AGA)
- Multiple Switcher modes including:
  - Project/Files view allowing drag, drop, and rearranging of project storyboard with unlimited croutons
  - Files/Files view allowing file management including copying, making directories, etc.
  - Project/Project view allowing project to project editing with cut, copy, paste, etc.
  - Project/Switcher view for live switching, manual production, etc.
- Play entire project or play from selected crouton
- Directory tabs allowing shortcut buttons to video, audio, framestore, or other locations
- User expertise levels from beginner to power user
- *SCSI DAT tape backup and restore option*
- Over 500 ToasterFX for all Video Toasters, new ColorFX for AGA
- Configurable AmigaDOS Installation program using ASIM's CDFS or AmigaDOS 3.1
- Tools menu allowing instant access to commonly used features such as:
  - *Auto video inserts*
  - *Edit to crouton; allows interactive edits in real-time in relation to audio or video cues*
  - *FlyerProc; allows processing of Flyer video clips for slow motion, strobe, reverse, etc.*
  - Other commonly used AREXX tools may be added by the individual user as needed
- *Non-destructive editing and sequencing of video and audio clips*
- *Fully automatic cuts only and A/B roll A/V editing with real-time transitions*
- *User selectable video quality recording modes from Extended Play to High Quality 5 (approximate storage times are: HQ5 - 3.5 min./GB, SP - 5 min./GB, EP - 7.5 min./GB)*
- *Video with 16-bit 44.1 kHz CD-quality stereo audio attached*
- *Two stereo audio-only tracks for music, narration, special effects, etc.*
- *Split audio edits (audio lead, audio trail, or both)*
- *Line level audio input with gain control*
- *Real-time, interactive VU meters for audio recording*
- *Cut and paste time code values*
- *Process Clip features:*
  - *Destructive audio or video edits*
  - *Duplicate audio or video clips*
  - *Extract FlyerStills from video clip*
  - *Create audio clip from a video/audio clip*
- *Automatic cross fade of audio between transitions at beginning or end of clips*
- *Automatic display of last frame of outgoing clip on Preview bus for editing reference*
- *AREXX scripts for creating time lapse, stop motion effects, etc.*
- *SMPTE Time Code input via Flyer serial port (requires optional time code reader)*
- *Flyer HDTools comprehensive hard drive utility for evaluating and formatting Flyer video and audio drives*

ToasterCG

- Safe title area outline display
- Rotate and shear PostScript text brushes at any angle
- Interactively resize PostScript text brushes
- Load and save individual pages or books as graphic croutons for use in Switcher Projects
- Built-in ARexx macro command support
- New ARexx macros:
  - Spell checker
  - Box maker with auto-fit graphic resizing
  - Copy/Paste font attributes
  - EPS graphic loader
  - HIIP Graphics loader (support for BMP, JPEG, IFF24, PICT, Targa, TIFF, etc.)
- Over 30 new PostScript fonts included (plus use your previous version's fonts)
- New Color ToasterFonts
- Redesigned point and click icon interface
- Improved brush preview images

ToasterPaint

- Completely new and improved user interface
- Full screen 256,000 color HAM8 display for Amiga 4000/4000T (AGA)
- Full screen 4,096 color HAM display for Amiga 2000/3000 (non-AGA)
- Improved color palette with HSV color wheel selection
- Super smooth Airbrush tool
- Two new Paint modes; Swap Screen and Transporter
- Stencil tool
- Complete PostScript text support including:
  - Size text
  - Shear text
  - Stretch text
  - Rotate text any angle
  - Bold text
  - Outline text
- Improved keyboard equivalents
- Global fill
- Increased magnify mode (AGA only)
- AREXX process scripts for:
  - Graphics Loader/Savers (BMP, JPEG, PICT, Targa, TIFF, etc.)
  - *Make Flyer stills*
  - Mirror
  - Negative
  - Sepia tone, and many more image processing macros . .
- Improved menu structure
- Full image button
- Flip range for color spreads
- User definable color palette
- *Save as Flyer clip*
- *Load Flyer stills or clips*
- *Real-time preview of video clips directly from Process panel*

LightWave 3D 4.0

Layout

- Dozens of surface attributes including Luminosity, Glossiness, Diffusion, Transparency, Reflectivity, Bumpiness
- Animate and morph textures
- Apply any of over a dozen textures including Marble, Wood, Ripples, Fractal patterns and a variety of image mapping options

Animation

- Inverse Kinematics allows you to create complex character animation quickly
- IK makes animating like puppeteering
- Animate nearly all attributes of your scenes through an easy to use key frame interface, or with envelope controls
- Animate lights, lens flares, textures, objects, even camera attributes: zoom or depth of field
- Hierarchical motion and targeting
- Displacement Mapping and 3D Morphing
- Advanced motion controls including Spline Controls, Velocity, Shifting and Scaling
- Enhanced lens flare controls allows streak rotations and other manipulation
- Complete AREXX Support for batch processing, macros, etc.

Modeler

- Hundreds of modeling tools including Extrude, Lathe, Bevel, Mirror, Clone, Quantize, Jitter, Subdivide and many more
- PostScript and TrueType font compatibility
- Draw freehand shapes, or trace over images
- Work among ten different layers
- Preview objects as solid or see-through wire frames
- Boolean tools allow cutting, slicing and combining objects easily
- Create organic objects with spline curves, spline patching, and Metaform
- Multiple view options
- Macros allow automation of complex functions
- Multiple levels of Undo and Redo
- Automatic standards format between metric and standard in numeric requesters
- Mathematical functions can be typed directly into numeric requesters
- Complete AREXX Support for macros, etc.

Plug-Ins

Robust Plug-In architecture gives NewTek and other developers direct control over LightWave 3D to simply add new features and functions such as gravity, image filter/processors, or new modeling tools. Plug-Ins included with LightWave 4.0 are:

AllBGLayers	HSLColorCube	RandPricksScene
Arn_Calculate	Julienne	ToVRML
BGConform	LightSwarm	Sepia
BoundingBox	LoadFonts	Spherize
Cage	MakeSpikey	Spline Cage
Calculate	MathMotion	Squarize
Center	Negative	Stipple
Center1D	NextEmptyLayer	Symmetrize
CenterScale	NightVision	TextCompose
CenterStretch	ObjectSequence	TextCurve
Checker	ObjList	Toroid
ColorCube	PathToMotion	TriangleFan
CutCurves	Platonic	TriangleStrip
Donut	Plot1D	VidNoise
Emboss	Plot2D	Vignette
Envelopes	PointCenter	VRMLAutoSave
Gamma	Points2Polys	VRMLSave
Gear	PolyEdgeShaper	Weave
Globsave	Random Points	Wedge

Image Loaders/Savers for the following formats:
Alias, BMP, Cineon, IFF, JPEG, PCX, Pict, Pixar, QRT, Rendition, SGI, Sun, TIFF, Targa32, Toaster, Wavefront, XWIndows, YUV

Translator3D Loaders/Savers for the following formats:
3D Studio (3DS), AutoCad (DXF), Alias/Wavefront (WAVE)

Rendering

- Render 32-bit images in custom resolutions
- Saves 24-bit images and separate 8-bit alpha channel image
- Use realistic camera options such as Focal Length, Depth of Field and Motion Blur
- Generate true-to-life Ray Traced shadows, reflections, and refraction
- Control light attributes including Light Type, Color, Intensity, Falloff, Lens Flare, Shadow Options and more
- Create special effects such as animated Fog, Image Keying, and Particle Blur
- Unaffected by Fog option for objects
- Unseen by Rays option for objects
- Custom resolutions up to 8,000 by 8,000 pixels
- ScreamerNet render control allowing control of Intel, DEC Alpha or MIPS render modules
- *Load and save Flyer video clips directly from LightWave 3D*

LightWave 3D includes a CD-ROM full of license free objects, images, textures, and scenes.

LightWave 3D 5.0 is also available to Video Toaster 4.1 and Flyer 4.1 owners as a low cost upgrade. Please consult the LightWave 3D 5.0 feature list and your dealer for more information.

System Requirements for Video Toaster System 4.1

- Amiga 2000, 3000, 3000T, 4000, or 4000T with Video Toaster (2000 only) or Video Toaster 4000 (all models)
- 68030 Accelerator or better
- AmigaDOS 2.1 or later
- 10 MB of RAM (2MB Chip RAM required), 16 MB recommended
- System Hard Disk with 500 MB free required for full installation, less required for partial installation
- CD-ROM drive required for installation
- *Single SCSI II video drive required for LW3D animation recording*
- *Two SCSI II video drives and one SCSI I or II audio drive required for A/B editing*
- All video inputs must be time base correct

Consult your dealer to configure a system suited to your needs. More information? Call 800-TOASTER, email info@newtek.com, or visit us at www.newtek.com.

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